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1 [Efficient filtering of XML documents with XPath expressions](#)

C.-Y. Chan, P. Felber, M. Garofalakis, R. Rastogi

December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (383.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 100, Citation Count: 16


The publish/subscribe paradigm is a popular model for allowing publishers (i.e., data generators) to selectively disseminate data to a large number of widely dispersed subscribers (i.e., data consumers) who have registered their interest in specific ...

Keywords: Data dissemination, Document filtering, Index structure, XML, XPath

2 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December The VLDB Journal — The International Journal on Very Large Data
2002 Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (300.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 143, Citation Count: 25

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management ...


Keyw ords: Database, XML

3 Query optimization for OLAP-XML federations



Dennis Pedersen, Karsten Riis, Torben Bach Pedersen
November DOLAP '02: Proceedings of the 5th ACM international workshop on Data
2002 Warehousing and OLAP

Publisher: ACM

Full text available:  Pdf (205.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 83, Citation Count: 3

The changing data requirements of today's dynamic business environments are not handled well by current OLAP systems. Physically integrating unexpected data into such systems is a long and time-consuming process making logical integration, i.e., federation, ...

Keyw ords: OLAP, XML, database federations, query optimization

4 Algorithms and programming models for efficient representation of XML for Internet applications



Neel Sundaresan, Reshad Moussa
April WWW '01: Proceedings of the 10th international conference on World Wide
2001 Web

Publisher: ACM

Full text available:  Pdf (352.97 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 73, Citation Count: 6

Keyw ords: DOM, SAX, WBXML, XML, compression

5 A survey of approaches to automatic schema matching

Erhard Rahm, Philip A. Bernstein

December 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (196.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 226, Citation Count: 202

Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant ...

Keywords: Graph matching, Machine learning, Model management, Schema integration, Schema matching

6 Managing security policies in a distributed environment using eXtensible markup language (XML)



Nathan N. Vuong, Geoffrey S. Smith, Yi Deng

March 2001 SAC '01: Proceedings of the 2001 ACM symposium on Applied computing 2001

Publisher: ACM

Full text available:  Pdf (206.91 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 68, Citation Count: 4

Keywords: Java, RBAC, XML, distributed authorization, managing security policies, meta-language

7 Views in a large-scale XML repository

Vincent Aguilera, Sophie Cluet, Tova Milo, Pierangelo Veltri, Dan Vodislav

November 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (241.60 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 49, Citation Count: 5


We are interested in defining and querying views in a huge and highly heterogeneous XML repository (Web scale). In this context, view definitions are very large, involving lots of sources, and there is no apparent limitation to their size. This raises ...

Keywords: Query evaluation, Semantic integration, Views, Warehouse, XML

8 Efficient ordering for XML data

 Damien K. Fisher, Franky Lam, William M. Shui, Raymond K. Wong
November 2003 CIKM '03: Proceedings of the twelfth international conference on
Information and knowledge management

Publisher: ACM

Full text available:  Pdf (127.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 76, Citation Count: 2


With the increasing popularity of XML, there arises the need for managing and querying information in this form. Several query languages, such as XQuery, have been proposed which return their results in document order. However, most recent efforts focused ...

Keywords: XML, dynamic, order maintenance, semi-structured data

9 Effective structural inference for large XML documents

Jason Sankey, Raymond K. Wong
August 2002 Proceedings of the 19th international conference on Computational
linguistics - Volume 1, Volume 1


Publisher: Association for Computational Linguistics

Full text available:  Pdf (160.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Citation Count: 0

This paper investigates methods to automatically infer structural information from large XML documents. Using XML as a reference format, we approach the schema generation problem by application of inductive inference theory. In doing so, we review and ...

10 Methods for the semantic analysis of document markup

 Petra Saskia Bayerl, Harald Lungen, Daniela Goecke, Andreas Witt, Daniel Naber
November 2003 DocEng '03: Proceedings of the 2003 ACM symposium on Document
engineering

Publisher: ACM

Full text available:  Pdf (230.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 1

We present an approach on how to investigate what kind of semantic information is regularly associated with the structural markup of scientific articles. This approach addresses the need for an explicit formal description of the semantics of text-oriented ...

Keywords: XML, information extraction, prolog, semantic analysis

11 XIRQL: a query language for information retrieval in XML documents



Norbert Fuhr, Kai Großjohann

September 2001 SIGIR '01: Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM

Full text available: Pdf (234.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 84, Citation Count: 49

Based on the document-centric view of XML, we present the query language XIRQL. Current proposals for XML query languages lack most IR-related features, which are weighting and ranking, relevance-oriented search, datatypes with vague predicates, and ...

12 Constructing a virtual primary key for fingerprinting relational data



Yingjiu Li, Vipin Swarup, Sushil Jajodia

October 2003 DRM '03: Proceedings of the 3rd ACM workshop on Digital rights management

Publisher: ACM

Full text available: Pdf (240.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 79, Citation Count: 6

Agrawal and Kiernan's watermarking technique for database relations [1] and Li et al's fingerprinting extension [6] both depend critically on primary key attributes. Hence, those techniques cannot embed marks in database relations without primary key ...

Keywords: fingerprinting, primary keys, relational databases, robustness

13 Quality of service in an information economy



R. Braumandl, A. Kemper, D. Kossmann

November 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 4

Publisher: ACM

Full text available: Pdf (829.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 162, Citation Count: 6

Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, ...


Keywords: Quality of Service

14 Locating data sources in large distributed systems

Leonidas Galanis, Yuan Wang, Shawn R. Jeffery, David J. DeWitt

September 2003 VLDB '2003: Proceedings of the 29th international conference on Very large data bases - Volume 29, Volume 29

Publisher: VLDB Endowment

Full text available:  Pdf (129.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 42, Citation Count: 1

Querying large numbers of data sources is gaining importance due to increasing numbers of independent data providers. One of the key challenges is executing queries on all relevant information sources in a scalable fashion and retrieving fresh results. ...


15 DBGlobe: a service-oriented P2P system for global computing



Evaggelia Pitoura, Serge Abiteboul, Dieter Pfoser, George Samaras, Michalis Vazirgiannis

September 2003 ACM SIGMOD Record, Volume 32 Issue 3

Publisher: ACM

Full text available:  Pdf (282.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 57, Citation Count: 4

The challenge of peer-to-peer computing goes beyond simple file sharing. In the DBGlobe project, we view the multitude of peers carrying data and services as a superdatabase. Our goal is to develop a data management system for modeling, indexing and ...


Keywords: global computing, metadata, peer-to-peer computing, peer-to-peer databases, pervasive computing, services, ubiquitous computing

16 An integrated architecture for shallow and deep processing

Berthold Crysmann, Anette Frank, Bernd Kiefer, Stefan Müller, Günter Neumann, Jakub Piskorski, Ulrich Schäfer, Melanie Siegel, Hans Uszkoreit, Feiyu Xu, Markus Becker, Hans-Ulrich Krieger

July 2001 ACL '02: Proceedings of the 40th Annual Meeting on Association for Computational Linguistics

Publisher: Association for Computational Linguistics

Full text available:  Pdf (120.20 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 26, Citation Count: 6

We present an architecture for the integration of shallow and deep NLP components which is aimed at flexible combination of different language technologies for a range of practical current and future applications. In particular, we describe the integration ...

17 [Learning to match ontologies on the Semantic Web](#)

AnHai Doan, Jayant Madhavan, Robin Dhamankar, Pedro Domingos, Alon Halevy
November 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 4
Publisher: Springer-Verlag New York, Inc.


Full text available:  Pdf (263.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 311, Citation Count: 18

On the Semantic Web, data will inevitably come from many different ontologies, and information processing across ontologies is not possible without knowing the semantic mappings between them. Manually finding such mappings is tedious, error-prone, and ...

Keyw ords: Machine learning, Ontology matching, Relaxation labeling, Semantic Web

18 [The chatty web: emergent semantics through gossiping](#)

 Karl Aberer, Philippe Cudré-Mauroux, Manfred Hauswirth
May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web
Publisher: ACM

Full text available:  Pdf (237.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Citation Count: 14

This paper describes a novel approach for obtaining semantic interoperability among data sources in a bottom-up, semi-automatic manner without relying on pre-existing, global semantic models. We assume that large amounts of data exist that have been ...

Keyw ords: self-organization, semantic agreements, semantic integration

19 [Automatic segmentation of text into structured records](#)



Vinayak Borkar, Kaustubh Deshmukh, Sunita Sarawagi

June ACM SIGMOD Record, Volume 30 Issue 2
2001

Publisher: ACM

Full text available: Pdf (331.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 220, Citation Count: 25

In this paper we present a method for automatically segmenting unformatted text records into structured elements. Several useful data sources today are human-generated as continuous text whereas convenient usage requires the data to be organized as structured ...

20 [SemTag and seeker: bootstrapping the semantic web via automated semantic annotation](#)



Stephen Dill, Nadav Eiron, David Gibson, Daniel Gruhl, R. Guha, Anant Jhingran, Tapas Kanungo, Sridhar Rajagopalan, Andrew Tomkins, John A. Tomlin, Jason Y. Zien

May WWW '03: Proceedings of the 12th international conference on World Wide Web
2003 Web

Publisher: ACM

Full text available: Pdf (178.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 273, Citation Count: 43

This paper describes Seeker, a platform for large-scale text analytics, and SemTag, an application written on the platform to perform automated semantic tagging of large corpora. We apply SemTag to a collection of approximately 264 million web pages, ...

Keywords: automated semantic tagging, data mining, information retrieval, large text datasets, text analytics

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